

RAW SEQUENCE LISTING

DATE: 01/15/2002

PATENT APPLICATION: US/10/023,896

TIME: 19:05:23

Input Set : A:\PA004PlseqList.txt

Output Set: N:\CRF3\01152002\J023896.raw

1 <110> APPLICANT: Victor Roschke
 3 <120> TITLE OF INVENTION: 29 Human Cancer Associated Proteins
 5 <130> FILE REFERENCE: PA004P1
 7 <140> CURRENT APPLICATION NUMBER: US/10/023,896
 7 <141> CURRENT FILING DATE: 2001-12-21
 7 <150> PRIOR APPLICATION NUMBER: unassigned
 8 <151> PRIOR FILING DATE: 2001-12-21
 10 <150> PRIOR APPLICATION NUMBER: PCT/US00/23794
 11 <151> PRIOR FILING DATE: 2000-08-30
 13 <150> PRIOR APPLICATION NUMBER: 60/152,296
 14 <151> PRIOR FILING DATE: 1999-09-03
 16 <150> PRIOR APPLICATION NUMBER: 60/158,003
 17 <151> PRIOR FILING DATE: 1999-10-06
 19 <160> NUMBER OF SEQ ID NOS: 138
 21 <170> SOFTWARE: PatentIn Ver. 2.0
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 733
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Homo sapiens
 28 <400> SEQUENCE: 1
 29 gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60
 30 aattcgaggg tgcaccgtca gtcttcctct tcccccaaaa acccaaggac accctcatga 120
 31 tctcccgagc tcctgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg 180
 32 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
 33 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
 34 ggctgaatgg caaggagtag aagtgcgaagg tctccaacaa agccctccca acccccatcg 360
 35 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
 36 catcccgagg tgagctgacc aagaaccagg tcagcctgac ctgcctgggc aaaggcttct 480
 37 atccaagcga catcgccgtg gagtggggaga gcaatgggca gccggagaa aactacaaga 540
 38 ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctaccctggg 600
 39 acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggtctctg 660
 40 acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
 41 gactctagag gat 733
 43 <210> SEQ ID NO: 2
 44 <211> LENGTH: 5
 45 <212> TYPE: PRT
 46 <213> ORGANISM: Homo sapiens
 48 <220> FEATURE:
 49 <221> NAME/KEY: Site
 50 <222> LOCATION: (3)
 51 <223> OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
 53 <400> SEQUENCE: 2
 54 Trp Ser Xaa Trp Ser
 55 1 5
 57 <210> SEQ ID NO: 3
 58 <211> LENGTH: 86
 59 <212> TYPE: DNA

ENTERED

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60 <213> ORGANISM: Artificial Sequence
62 <220> FEATURE:
63 <221> NAME/KEY: Primer_Bind
64 <223> OTHER INFORMATION: Synthetic sequence with 4 tandem copies of the GAS binding
site
65     found in the IRF1 promoter (Rothman et al., Immunity 1:457-468
66     (1994)), 18 nucleotides complementary to the SV40 early promoter,
67     and a Xho I restriction site.
69 <400> SEQUENCE: 3
70 gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc      60
71 cccgaaatat ctgccatctc aattag                                           86
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 27
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <221> NAME/KEY: Primer_Bind
80 <223> OTHER INFORMATION: Synthetic sequence complementary to the SV40 promoter;
includes a
81     Hind III restriction site.
83 <400> SEQUENCE: 4
84 gcggcaagct ttttgcaaag cctaggc                                           27
86 <210> SEQ ID NO: 5
87 <211> LENGTH: 271
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <221> NAME/KEY: Protein_Bind
93 <223> OTHER INFORMATION: Synthetic promoter for use in biological assays; includes GAS
94     binding sites found in the IRF1 promoter (Rothman et al., Immunity
95     1:457-468 (1994)).
97 <400> SEQUENCE: 5
98 ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg      60
99 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc      120
100 gcccctaact ccgcccagtt ccgcccattc tccgcccctat ggctgactaa ttttttttat      180
101 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt      240
102 ttttgagggc ctaggctttt gcaaaaagct t                                     271
104 <210> SEQ ID NO: 6
105 <211> LENGTH: 32
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <221> NAME/KEY: Primer_Bind
111 <223> OTHER INFORMATION: Synthetic primer complementary to human genomic EGR-1
promoter
112     sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a
113     Xho I restriction site.
115 <400> SEQUENCE: 6
116 gcgctcgagg gatgacagcg atagaacccc gg                                     32
118 <210> SEQ ID NO: 7
119 <211> LENGTH: 31
120 <212> TYPE: DNA

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121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <221> NAME/KEY: Primer_Bind
125 <223> OTHER INFORMATION: Synthetic primer complementary to human genomic EGR-1
promoter
126     sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a
127     Hind III restriction site.
129 <400> SEQUENCE: 7
130 gcgaaagcttc gcgactcccc ggatccgcct c                               31
132 <210> SEQ ID NO: 8
133 <211> LENGTH: 12
134 <212> TYPE: DNA
135 <213> ORGANISM: Homo sapiens
137 <400> SEQUENCE: 8
138 ggggactttc cc                                                       12
140 <210> SEQ ID NO: 9
141 <211> LENGTH: 73
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <221> NAME/KEY: Primer_Bind
147 <223> OTHER INFORMATION: Synthetic primer with 4 tandem copies of the NF-KB binding
site
148     (GGGGACTTCCC), 18 nucleotides complementary to the 5' end of the
149     SV40 early promoter sequence, and a XhoI restriction site.
151 <400> SEQUENCE: 9
152 gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg       60
153 ccatctcaat tag                                                       73
155 <210> SEQ ID NO: 10
156 <211> LENGTH: 256
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <221> NAME/KEY: Protein_Bind
162 <223> OTHER INFORMATION: Synthetic promoter for use in biological assays; includes
NF-KB
163     binding sites.
165 <400> SEQUENCE: 10
166 ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct       60
167 caattagtca gcaaccatag tccgcgccct aactccgccc atccgcgcc taactccgcc       120
168 cagttccgcc cattctccgc ccatggctg actaattttt tttatttatg cagaggccga       180
169 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg       240
170 cttttgcaaa aagctt                                                       256
172 <210> SEQ ID NO: 11
173 <211> LENGTH: 1388
174 <212> TYPE: DNA
175 <213> ORGANISM: Homo sapiens
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (1388)..(1388)
180 <223> OTHER INFORMATION: n equals a,t,g, or c
182 <400> SEQUENCE: 11

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183	cggtgcgacc	cacgcgtccg	gtccctagga	gataagagta	tcttgccacag	caggtgcagg	60
184	tttcccagca	gctcaggcaa	gagtcctgat	tttgtgccat	ctgatacctga	tgtctggaga	120
185	gatagccatg	tgtgagcctg	aattttggca	tgacaaggcc	agggagccga	gcgtgggtgg	180
186	caggtggcga	gtgtcctggg	acgaacgggt	tgtgcagcca	tgtctggctg	aactgctggg	240
187	ctctgctctc	ttcatcttca	tcgggtgcct	gtcggtcatt	gagaatggga	cggacactgg	300
188	gctgctgcag	cgggccctgg	cccacgggct	ggctttgggg	ctcgtgattg	ccacgctggg	360
189	gaatatcagt	ggtggacact	tcaacctgc	ggtgtccctg	gcagccatgc	tgatcggagg	420
190	cctcaacctg	gtgatgtccc	tcccgactg	ggtctcacag	ctgctcgggg	ggatgctcgg	480
191	ggctgccttg	gccaaaggcg	tgagtcctga	ggagagggtc	tggaatgcat	ctggggcggc	540
192	ctttgtgaca	gtccaggagc	aggggcagg	ggcagggg	ttggtggcag	agatcatcct	600
193	gacgacgctg	ctggccctgg	ctgtatgcat	gggtgccatc	aatgagaaga	caaagggccc	660
194	tctggccccg	ttctccatcg	gctttgccgt	caccgtggat	atcctggctg	ggggccctgt	720
195	gtctggaggc	tgcatgaatc	ccgccctg	ttttggacct	gcgggtgggtg	ccaaccactg	780
196	gaacttccac	tggatctact	ggctggggcc	actcctggct	ggcctgcttg	ttggactgct	840
197	cattaggtgc	ttcattggag	atgggaagac	ccgcctcatc	ctgaaggctc	agtgaagcag	900
198	agctcgtggg	attcctgctg	ctccagggtg	cctcagctca	cctgtcccag	actgaggaca	960
199	ggggagttcc	tgcatttcct	gccagggcag	aggccagag	gagcgacccc	ctgcttccac	1020
200	tgcttggggc	tgctttctca	gatagactga	ctgctgagga	ggctctaggt	tcttgggaatt	1080
201	cctttgtgct	catcagagac	cccagcctgg	ggaacacgct	gcccgcactg	cccagagagc	1140
202	agtgcacaaca	ccacaacacg	agcgtgtttc	ttgagaggaa	tgtccccgag	ttggacaagg	1200
203	aggetgtttc	tgcacatcag	ctcatttccc	gcaccccatt	tcttkcttga	ttgctttgtt	1260
204	gggggccttg	ccacttccct	gcttctcaag	ctgacaattc	tgcactttgc	aataaatagt	1320
205	ccagtgtttc	cttccaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1380
206	aaaaaaaaan						1388
208	<210> SEQ ID NO: 12						
209	<211> LENGTH: 1478						
210	<212> TYPE: DNA						
211	<213> ORGANISM: Homo sapiens						
213	<400> SEQUENCE: 12						
214	ccacgcgtcc	ggaagtaatg	atgacaaaat	actctaacct	ttccttggag	agtcataact	60
215	tctcgtgac	tgtttcacct	cttacaagtc	tgcccatccc	ggaagtaatg	atgacaaaat	120
216	actccaacct	tttcttggaa	agtcataaca	tctcactgac	tgaacattcc	agtgtgccag	180
217	tggaaaaaaa	tatcacttta	gaacgacctt	ctgctgtaga	actcacatgt	cagttcacaa	240
218	cttctgggga	tgtgaattca	gtaaatgtga	cttggaaaaa	aggggatgaa	caacttaaga	300
219	attacatgt	cagtgcacac	gaaggcatcc	tgtataccca	gtacaagttt	tccatcatta	360
220	atagcgaaca	actgggaagc	tattcttgtt	tctttgaaga	ggaaaaggaa	cgaaggggca	420
221	catttaattt	cggagtcctt	gaagttcaga	gaaaaaaca	accattgatc	acttatgtgg	480
222	gggattccgt	tgtcttgggt	tgtaaatgcc	gacactgtgc	tcctttaaat	tggaacctgt	540
223	acagtggtaa	taggagtgtg	caggttcctc	ttgatgttca	catgaatgaa	aagtatgcga	600
224	tcaatggaac	aaacgcgaat	gaaacaaggc	ttaagataat	gcagctttca	gaagacgata	660
225	aaggatctta	ttggtgccat	gcaatgttcc	agttggggcg	gagccaagaa	agtgttgaa	720
226	tggttgtgat	aagttatttg	gtgcccctca	aaccatttct	tggaatagtt	gttgaagtta	780
227	ttcttttagt	ggctattatt	ctgttttgtg	aaatgcacac	ccaaaagaaa	aagatgcaca	840
228	tggtatgatg	gaaagaattt	gaacaagttg	aacagttgaa	atcagacgat	agcaacggca	900
229	tagaaaataa	tgcccccagg	cacagaaaaa	atgaagctat	gagccagtga	aagcaaaaaca	960
230	tcgtgtcaag	agtaatggga	agatgtatag	tttctacttc	agctttgttt	atgtttcctg	1020
231	tgaagaacat	ctgagttttt	atttttacaa	ggatgaaaag	tttatgtgat	atgctcagca	1080
232	gtagttttgc	aataatacct	gctatctcag	atocaaagat	atattttcct	tctgtgatta	1140
233	ttttacatta	aagcaaggta	aatcatatta	aatatgttct	atgagctata	accagggata	1200

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234 actaatttca tcttggatcat caagggatgc acagaagaga taccagcaaa accagttagt 1260
235 agtacatgaa ctaatgtcat tcaagacctg cgtataacca aagaattcat taaagagaaa 1320
236 acttttttgc catttgcctt ggtttttttt ctaattatgc ttactatgtg tagaaatatt 1380
237 tgtaataatt ttcatgtaat ggtcaccctc tgtcatattg gataaaaaca tctttattaa 1440
238 gaaatgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1478

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240 <210> SEQ ID NO: 13

241 <211> LENGTH: 1684

242 <212> TYPE: DNA

243 <213> ORGANISM: Homo sapiens

245 <220> FEATURE:

246 <221> NAME/KEY: misc_feature ✓

247 <222> LOCATION: (1)..(1)

248 <223> OTHER INFORMATION: n equals a,t,g, or c

250 <220> FEATURE:

251 <221> NAME/KEY: misc_feature

252 <222> LOCATION: (18)..(18)

253 <223> OTHER INFORMATION: n equals a,t,g, or c

255 <220> FEATURE:

256 <221> NAME/KEY: misc_feature

257 <222> LOCATION: (63)..(63)

258 <223> OTHER INFORMATION: n equals a,t,g, or c

260 <400> SEQUENCE: 13

WJF

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261 ncggcgcgac cccccantt ttaatgacgc ctgccgtccg gtccggaatt cccgggtcga 60
262 ccncgcgctcc ggcgggaccg gtttgcggga agattctgtg gacaatcacc atgggaagca 120
263 aaggaggctt catccttctg ctcatcctcg ctgtgctctg ccgttcaggt catagcctga 180
264 catgctacgc ctgtattgac cgtgaaacct gcaacaagac cactgtttgt tcagttaatc 240
265 atgacgcgtg tctgttgggc aaagctgcat caaaactttt ttaccgccag tgttgggaagt 300
266 ttgatgactg cagctacctc tctatctcca aagccctggg gctgaagaag ctccagtaca 360
267 gctgttgcca gaaggacctg tgcaacggga gtgccagggt ctctgggatg acagcgttga 420
268 tgctgctccc cttgctggcg gcagccttga cgctttgtct ctaaatcaac accgggaggc 480
269 cttctcctaa actttccgtg tctccgtata ctcccttatt ccttggctgc tgcattgcca 540
270 cagctttatt tcacctgtcc cggttggcaa gactaacact agtttgggca acttgggtgac 600
271 aagagaggct ctgagagacg ttgaaggatc gtccctgtgg cagcgaagac ccgtcggagg 660
272 gacatgggat aaaagggtgc agcagctgcg atctgagctc ggccgcacgt ttcttctctg 720
273 gcttttcaca agagcagcct cgcagggaca gcttgsctac ctccagatct ctgcagggcc 780
274 cggatcatgt tattttccct ctgatggctt ggagggtgatt tttaaatact ctgatctgga 840
275 ggggaggggcg gtggtactgg gacagggggg tcttttcgac agcctctccc aggggaatgct 900
276 ttcacatctc ccttttatgg caccgcgct gccaaagcagg ccgaccacg ctcccacatg 960
277 cgggctgttg gggagcggcc gggagattct cagtgtctgg tgatcgcatg gacctttgta 1020
278 gtctcaactc gcgggtgcct ggcagggaag gaggggagct ttccacacgg cagggccttg 1080
279 aactcccagg tctgtcttcc gaaaagtagc agtggctaaa atcagagttt tctctatca 1140
280 ctcggttgat aatgggcttt gcttgtctgc agtagagaaa cttagcatct aataatgatg 1200
281 tgtgaaaatt attccttcaa cttttgcac agattggtgg ggtatcttgg ctttgtcaca 1260
282 cgcagttaaa gtctkaacgt tgggacactc tgtaaaaaat aactcgtagt ggggcacctg 1320
283 ggtggctcag tgggttaaag cctctacctt gggatcatga cctgagggtg aggcagaggc 1380
284 ctagcccact gagccaccca ggcgccccta aaagtgttac accttttgag gaagagtttt 1440
285 gcctttttct tggggtgtgt cctgaataat ttgcaagatc cagcagtcgg aaggacactt 1500
286 gttttctwat catctcggtt gtctctaaca gcacagcttg gctttttgca gatgaagggtg 1560
287 ggacttcagg attaacattt tttttcactc ccttgcctcat gtaatctatg taacaggctg 1620

```

Use of n and/or Xaa has been detected in the Sequence Listing.

→ Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

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L:7 M:270 C: Current Application Number differs, Replaced Current Application No
L:7 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:1317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:1360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:1361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:1431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:1432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:1491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
L:1507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:2624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:2884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100
L:3454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128
L:3457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128
L:3460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128